



Tides Canada Innovation Workshop

Renewable Food for Sustainable Aquaculture

....the future of world food supply

Enterra's Mission



We farm

renewable food for animals and plants

We grow

natural protein, oils and organic fertilizer

Our feedstock

traceable, pre-consumer waste food

Food Production



What does it cost

to fuel our resource and nutrient intensive food production?

Food Production



Too much.





Food Waste



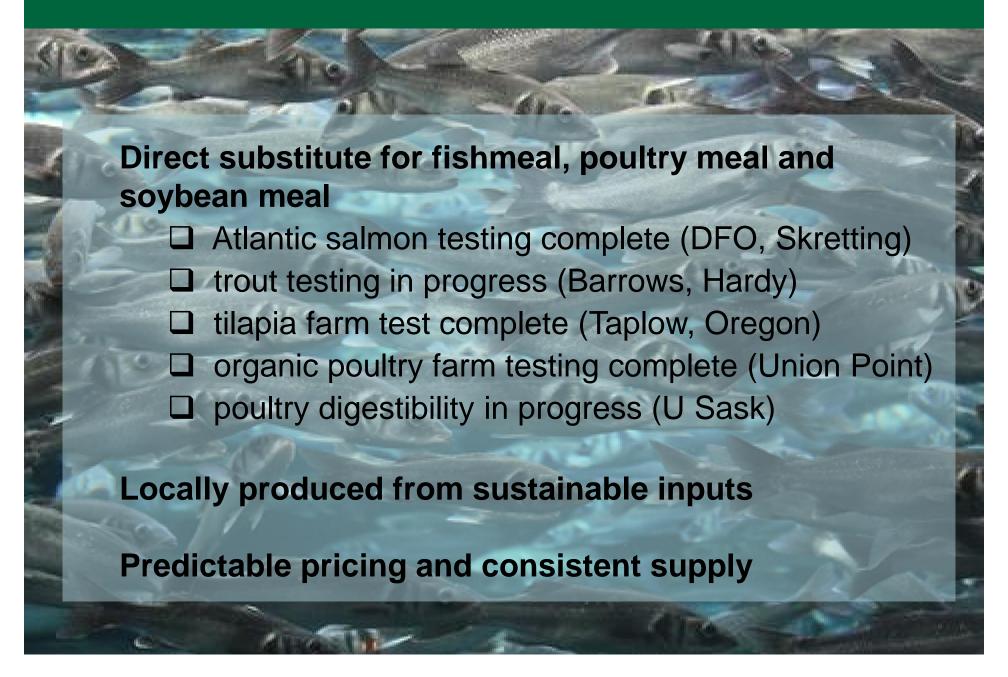
Black Soldier Fly



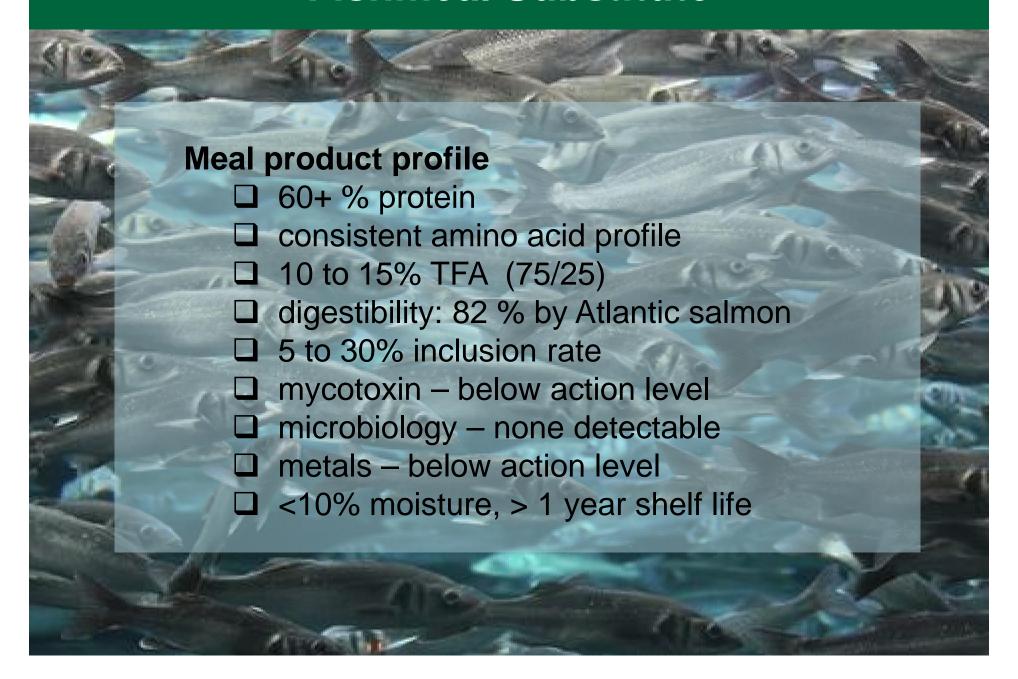
Natural Insect-Rearing Process



Fishmeal Substitute



Fishmeal Substitute



Regulatory Picture



Expansion to 100 tpd Langley Facility



5,300 m² facility

7 hectare site

Feedstock Testing/Analysis











Automated Feedstock Processing



Hatchery Operation



54 m³ each

2,700 m³ total

8 million flies (400 kg total)

Insect Rearing



Larvae growth



Product Processing/Packaging

Screened, Washed, Cooked, Dried and Packaged



Dried Larvae Product

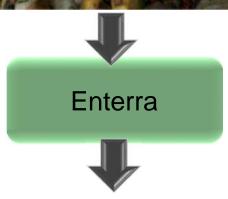


Natural Oil

Meal

Langley Farm Metrics

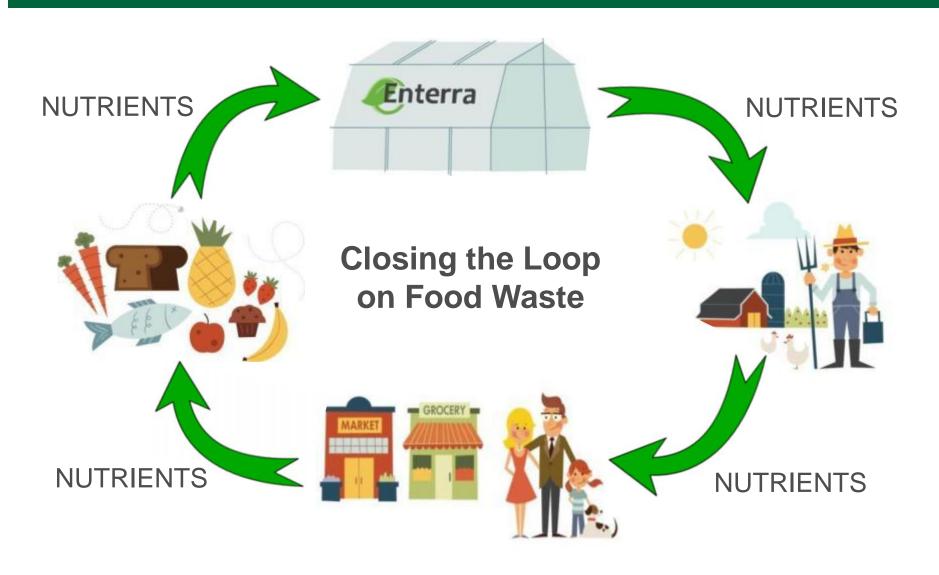




- ✓ Protein and Oils
- ✓ Organic Fertilizer

- > 36,000 tpy capacity \$C10 million
- privately financed
- > +20 full time jobs
- zero waste from organics
- \gt 100 tonnes food = +60 tonnes product

Enterra in the Circular Economy



Benefits for Aquaculture

Farm Operators

- ✓ Local, predictable supply and pricing
- ✓ Sustainable feed source

Feed Manufacturers

- ✓ Predictable pricing, quality and supply
- ✓ Locally produced feed ingredients

The Planet

- ✓ maximizing nutrient recycle
- ✓ Less resource intensive feed

Consumers

- ✓ Sustainable farm products
- ✓ Predictable quality of farmed fish





Renewable Food For Animals and Plants ™

....the future of world food supply